

# THERMAL BARRIER COATING MATERIALS

## Abstract of Disclosure

A coating material for a component intended for use in a hostile thermal environment. The coating material has a cubic microstructure and consists essentially of either zirconia stabilized by dysprosia, erbia, gadolinium oxide, neodymia, samarium oxide or ytterbia, or hafnia stabilized by dysprosia, gadolinium oxide, samarium oxide, yttria or ytterbia. Up to five weight percent yttria may be added to the coating material.